


CURRENT LIMITING DEVICE HAVING A WEB STRUCTURE

Patent number: WO0010177
Publication date: 2000-02-24
Inventor: DUGGAL ANIL RAJ
Applicant: GEN ELECTRIC (US)
Classification:
- International: H01C7/102; H01C7/13
- european: H01C7/102, H01C7/13
Application number: WO1999US17695 19990805
Priority number(s): US19980133159 19980812

Also published as:

 US6133820 (A1)

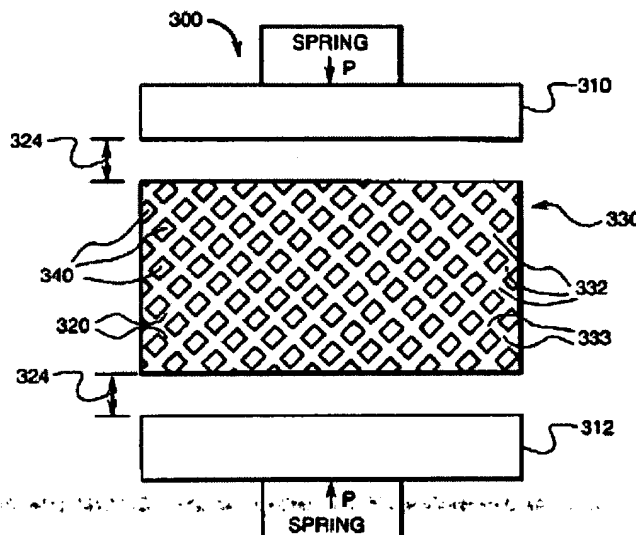
Cited documents:

 US5614881
 US4314230
 EP0640995
 WO9602922

Abstract of WO0010177

An exemplary current limiting device comprises first and second electrodes; a composite material between the first and second electrodes, the composite material comprising: (a) a binder, and (b) an electrically conductive filler; a thin layer which provides an inhomogeneous distribution of resistance to the device; a web which reinforces the composite material; and a pressurizer for pressing the electrodes against the composite material; wherein the web is disposed in a volume of the composite material which does not include the thin layer. The current limiting device is simple and reusable, and can be tailored to a plurality of applications, including high voltage/current distribution systems, to protect sensitive components from high fault currents.

The device has a robust structure which allows it to repeatedly withstand the high mechanical and thermal stresses which typically accompany switching events in high voltage/current circuits. The robust structure improves the lifetime of the device and provides impact resistance to the device. The device operates without relying on the PTCR effect to limit current.



Data supplied from the esp@cenet database - Worldwide

BEST AVAILABLE COPY